

# NVIDIA BlueField-3

## datasheet

| Model           | p/n2               | Crypto   | Pcie Interface | Power Supply Requirement           | Connector           | Dimensions       | Infiniband                                    | Ethernet                              | DRAM | NVRAM                             | SOC                                                   |
|-----------------|--------------------|----------|----------------|------------------------------------|---------------------|------------------|-----------------------------------------------|---------------------------------------|------|-----------------------------------|-------------------------------------------------------|
| B3140H SuperNIC | 900-9D3D4-00EN-HA0 | Enabled  | pcie 5 x16     | power over PCIe x16                | Single-port QSFP112 | Single-Slot HHHH | NDR / NDR200 / HDR / HDR100 / EDR / FDR / SDR | 400 / 200 / 100 / 50 / 25 / 10 Gb / s | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series-8 Arm-Cores - 505MHz / 2000MHz   |
| B3140H SuperNIC | 900-9D3D4-00NN-HA0 | Disabled | pcie 5 x16     | power over PCIe x16                | Single-port QSFP112 | Single-Slot HHHH | NDR / NDR200 / HDR / HDR100 / EDR / FDR / SDR | 400 / 200 / 100 / 50 / 25 / 10 Gb / s | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series-8 Arm-Cores - 505MHz / 2000MHz   |
| B3140L SuperNIC | 900-9D3B4-00EN-EA0 | Enabled  | pcie 5 x16     | power over PCIe x16                | Single-port QSFP112 | Single-Slot FHHL | NDR / NDR200 / HDR / HDR100 / EDR / FDR / SDR | 400 / 200 / 100 / 50 / 25 / 10 Gb / s | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series- 8 Arm-Cores - 505MHz / 2000MHz  |
| B3140L SuperNIC | 900-9D3B4-00PN-EA0 | Disabled | pcie 5 x16     | power over PCIe x16                | Single-port QSFP112 | Single-Slot FHHL | NDR / NDR200 / HDR / HDR100 / EDR / FDR / SDR | 400 / 200 / 100 / 50 / 25 / 10 Gb / s | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series- 8 Arm-Cores - 505MHz / 2000MHz  |
| B3220L SuperNIC | 900-9D3B4-00CV-EA0 | Enabled  | pcie 5 x16     | power over PCIe x16                | Dual-port QSFP112   | Single-Slot FHHL | NDR200 / HDR / HDR100 / EDR / FDR / SDR       | 200 / 100 / 50 / 25 / 10 Gb / s       | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series-8 Arm-Cores - 505MHz / 2000MHz   |
| B3220L SuperNIC | 900-9D3B4-00SV-EA0 | Disabled | pcie 5 x16     | power over PCIe x16                | Dual-port QSFP112   | Single-Slot FHHL | NDR200 / HDR / HDR100 / EDR / FDR / SDR       | 200 / 100 / 50 / 25 / 10 Gb / s       | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series-8 Arm-Cores - 505MHz / 2000MHz   |
| B3210L SuperNIC | 900-9D3B4-00CC-EA0 | Enabled  | pcie 5 x16     | power over PCIe x16                | Dual-port QSFP112   | Single-Slot FHHL | HDR100 / EDR / FDR / SDR                      | 100 / 50 / 25 / 10 Gb / s             | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series-8 Arm-Cores - 505MHz / 2000MHz   |
| B3210L SuperNIC | 900-9D3B4-00CC-EA0 | Disabled | pcie 5 x16     | power over PCIe x16                | Dual-port QSFP112   | Single-Slot FHHL | HDR100 / EDR / FDR / SDR                      | 100 / 50 / 25 / 10 Gb / s             | 16GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series-8 Arm-Cores - 505MHz / 2000MHz   |
| B3240 DPU       | 900-9D3B6-00CN-AB0 | Enabled  | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112   | Dual-Slot FHHL   | NDR / NDR200 / HDR / HDR100 / EDR / FDR / SDR | 400 / 200 / 100 / 50 / 25 / 10 Gb / s | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 P-Series-16 Arm-Cores - 560 MHz / 2133MHz |

| Model      | p/n2               | Crypto   | Pcie Interface | Power Supply Requirement           | Connector         | Dimensions       | Infiniband                                    | Ethernet                              | DRAM | NVRAM                             | SOC                                                    |
|------------|--------------------|----------|----------------|------------------------------------|-------------------|------------------|-----------------------------------------------|---------------------------------------|------|-----------------------------------|--------------------------------------------------------|
| B3240 DPU  | 900-9D3B6-00SN-AB0 | Disabled | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Dual-Slot FHHL   | NDR / NDR200 / HDR / HDR100 / EDR / FDR / SDR | 400 / 200 / 100 / 50 / 25 / 10 Gb / s | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 P-Series-16 Arm-Cores - 560 MHz / 2133MHz  |
| B3210 DPU  | 900-9D3B6-00CC-AA0 | Enabled  | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Single-Slot FHHL | HDR100 / EDR / FDR / SDR                      | 100 / 50 / 25 / 10 Gb / s             | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 P-Series-16 Arm-Cores - 560 MHz / 2133MHz  |
| B3210 DPU  | 900-9D3B6-00SC-AA0 | Disabled | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Single-Slot FHHL | HDR100 / EDR / FDR / SDR                      | 100 / 50 / 25 / 10 Gb / s             | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 P-Series-16 Arm-Cores - 560 MHz / 2133MHz  |
| B3210E DPU | 900-9D3B6-00CC-EA0 | Enabled  | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Single-Slot FHHL | HDR100 / EDR / FDR / SDR                      | 100 / 50 / 25 / 10 Gb / s             | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series - 16 Arm-Cores - 505MHz / 2000MHz |
| B3210E DPU | 900-9D3B6-00SC-EA0 | Disabled | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Single-Slot FHHL | HDR100 / EDR / FDR / SDR                      | 100 / 50 / 25 / 10 Gb / s             | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 E-Series - 16 Arm-Cores - 505MHz / 2000MHz |
| B3220 DPUs | 900-9D3B6-00CV-AA0 | Enabled  | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Single-Slot FHHL | NDR200 / HDR / HDR100 / EDR / FDR / SDR       | 200 / 100 / 50 / 25 / 10 Gb / s       | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 P-Series-16 Arm-Cores - 560 MHz / 2133MHz  |
| B3220 DPUs | 900-9D3B6-00SV-AA0 | Disabled | pcie 5 x16     | 8-pin ATX external power connector | Dual-port QSFP112 | Single-Slot FHHL | NDR200 / HDR / HDR100 / EDR / FDR / SDR       | 200 / 100 / 50 / 25 / 10 Gb / s       | 32GB | 40GB pSLC eMMC memory + 128GB SSD | BlueField-3 P-Series-16 Arm-Cores - 560 MHz / 2133MHz  |

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